

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

				TOT WITHOUT C	e mcano	n is granted.	
MODEL YEAR	ENGINE FAMILY	ENGINE SIZES (L)	FUEL TYPE	STANDARDS & TEST PROCEDURE	SERVICE	ECS & SPECIAL FEATURES 3	IDLING EMISSIONS
2008	8CEXH0505CAZ	8.3	Diesel		DEASS	DDI, TC, CAC, ECM, EGR, OC.	CONTROL 5
ENGINE (L		0.0		Diesel	MHDD	PTOX	30g
8.3			ENGINE MODEL	S / CODES (rate	d power, in h	(p)	
			ISC 330 / 2085 FR91723	(220) ICC 24	E 10005 EC	302000 (200)	
* =not applic	able; GVWR=gross vehicle v	veight rating: 13 CC	R xyz=Title 13. California Code of P	(020), 100 01	3 / 2003,FR	(92006 (320)	

=not applicable; GVWR=gross vehicle weight rating; 13 CCR xyz=Title 13, California Code of Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulations, Section 86.abc; item=horsepower; kw=kilowatt; hr=hour;

CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF≈dual fuel; FF=flexible fuel

L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto;

LWMH HDD=light/medium/heavy-duty diesel; UB=urban bus; HDD=heavy duty Oito;

ECS=emission control system; TWC/DC=three-way/oxidizing catalyst; NAC=NOx adsorption catalyst; SCR-U / SCR-N=selective catalytic reduction – urea / -- ammonia; WU (prefix) =warm-tBi=throttle body fuel injection; SFI/MFI=sequential/multi port fuel injection; Defined gasoline injection; GCARB=gaseous carburetor; IDI/DD=indirect/direct diesel injection; TC/SC=turbo/ control module; EM=engine modification; 2 (prefix)=prarafiel; (2) (suffix)=in series;

ESS=engine shuldown system (per 13 CCR 1956.8(a)(6)(A)(1); 30g=30 g/hr NOx (per 13 CCR 1956.8(a)(6)(C); ALT=alternative method (per 13 CCR 1956.8(a)(6)(D); Exempt=exempted per (Rev.: 2007-12-20)

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in

in g/bhp-hr	NMHC		NOx		NMHC+NOx		со					
	FTP	EURO	FTP	EURO	FTP	EURO			,	·M	HO	CHO
STD	0.14	0.14	-			EURU	FTP	EURO	FTP	EURO	FTP	EURO
FEL	*	0.14				<u> </u>	15.5	15.5	0.01	0.01	-	
			1.45	1.45	1.4	1.4	*		*	0.01		
CERT	0.01	0.000	1.16	1.04	1.1	1.0	-0.0	0.00			*	*
NTE T	0.21					1.0	0.2	0.00	0.001	0.000	*	*
			2,18  Dur: FTP≃Federal Test Proce		2.1		19.4		0.02		<del></del>	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions Esting: NMHC/HC=non-methans/hydrocarbon; NOx=oxides of nitrogen; CC=carbon monoxide; PM=particulate matter; HCHO=formaldehyde;

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this engine family certified under 13 CCR 1956.8(a)(6)(C) [30 g/hr NOx] and section 35.B.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" (HDDE Test Procedures) adopted Dec. 12, 2002, as last amended Sep. 1, 2006, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

BE IT FURTHER RESOLVED: The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(b) [diesel engines] or 13 CCR 1956.8(d) [Otto engines] and the incorporated 40 CFR 86.007-15(m)(9).

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

BE IT FURTHER RESOLVED: The listed engine models are conditionally certified pending submission of additional information to verify compliance with useful-life emission standards. The manufacturer has until March 31, 2008 to resolve concerns on this conditional certification. This Executive Order is effective through March 31, 2008; engines produced after the aforementioned effective date are deemed uncertified.

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this

Annette Hebert, Chief

Mobile Source Operations Division